

42. (Amended) A motion vector detection method as defined in Claim 40 further comprising:

a¹
an interpolation pixel generation step of receiving the pixel data constituting the reference area data, and generating decimal precision pixel data; and

a decimal precision motion vector detection step of detecting a decimal precision motion vector, using the data outputted from the interpolation pixel generation step, and the target block data.

REMARKS

Claims 1-42 remain pending herein. Claims 8-10, 13, 14, 16, 22, 30-32, 36, and 42 have been amended hereby.

This Preliminary Amendment is submitted to eliminate multiply dependent claims from the above-identified application.


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Examination of this application on its merits is respectfully
requested.

Respectfully submitted,

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Attachment: Claim Mark-ups

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CLAIM MARK-UPS FOR
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ENTITLED "MOTION VECTOR DETECTION APPARATUS"
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8. (Amended) A motion vector detection apparatus as defined in Claim 1 [any of Claims 1 to 7], wherein said motion vector detector is an integer precision motion vector detector that detects an integer precision motion vector from the data outputted from the first storage unit and the data outputted from the second storage unit.

9. (Amended) A motion vector detection apparatus as defined in Claim 1 [any of Claims 1 to 7], wherein said motion vector detector comprises:

an interpolation pixel generator for receiving the data outputted from the first storage unit, and generating decimal precision pixel data; and

a decimal precision motion vector detector for detecting a decimal precision motion vector from the data outputted from the interpolation pixel generator and the data outputted from the second storage unit.

10. (Amended) A motion vector detection apparatus as defined in Claim 1 [any of Claims 1 to 7], wherein said motion vector detector comprises:

an integer precision motion vector detector that detects an integer precision motion vector from the data outputted from the first storage unit and the data outputted from the second storage unit;

an interpolation pixel generator for receiving the data outputted from the first storage unit, and generating decimal precision pixel data; and

a decimal precision motion vector detector for detecting a decimal precision motion vector from the data outputted from the interpolation pixel generator and the data outputted from the second storage unit.

13. (Amended) A motion vector detection apparatus as defined in Claim 11 [or 12], wherein said interpolation pixel generator comprises:

a shift register unit comprising at least two shift registers; and

an interpolation pixel generator for receiving the data outputted from the first storage unit, and generating decimal precision pixel data; and

a decimal precision motion vector detector for detecting a decimal precision motion vector from the data outputted from the interpolation pixel generator and the data outputted from the second storage unit.

30. (Amended) A motion vector detection method as defined in Claim 23 [any of Claims 23 to 29], wherein said motion vector detection step is an integer precision motion vector detection step of detecting an integer precision motion vector by using the reference area data and the target block data.

31. (Amended) A motion vector detection method as defined in Claim 23 [any of Claims 23 to 29], wherein said motion vector detection step comprises:

an interpolation pixel generation step of receiving the pixel data constituting the reference area data, and generating decimal precision pixel data; and

precision motion vector detection step of detecting an integer precision motion vector, using the reference area data and the target block data.

42. (Amended) A motion vector detection method as defined in Claim 40 [or 41] further comprising:

an interpolation pixel generation step of receiving the pixel data constituting the reference area data, and generating decimal precision pixel data; and

a decimal precision motion vector detection step of detecting a decimal precision motion vector, using the data outputted from the interpolation pixel generation step, and the target block data.

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